Form P			Р	U.S. DEPARTMENT PATENT AND TRAD		ATTY. DOCKET NO.  8CN-8803	SERI	IAL NO.	
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1017		5,8	855,746	1/5/99	Prabhakara	a, et al.		†	
/	L	5,8	814,400	9/29/98	Kirino, et a	al.		1	7
9		5,7	789,756	8/4/98	Guzik			1 1	
4		5,7	729,393	3/17/98	Lee, et al.				1
9		5,6	589,480	11/18/97	Kino				
9		5,6	566,237	9/9/97	Lewis (Abs	stract)			1
4		5,5	590,115	12/31/96	Kubo	:			
1	Ц	5,5	585,159	12/17/96	Miyake, et	al.			
4		5,5	583,705	12/10/96	Ziperovich	, et al. (Abstract)			
ч		5,5	537,034	7/16/96	Lewis (Abs	stract)		7	7
И	g 5,533,001 7/2/96				Watanabe,	et al.	<u> </u>	7	7
1			FOREIGN F	PATENT OR P	UBLISHED FO	OREIGN PATENT APPL	LICATION	T -	Γ
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143		6-1	87683		Japan				
٠(		6-4	916		Japan				
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<u> </u>		6-20	0316		Japan				
			OTHER DOC	UMENTS (Incl	luding Author,	Title, Date, Pertinent Pag	jes, Etc.**)	7	
					Reinforced '	With Melt Processable	e Glass", R	t.T. Young	and D.G.
11/	-		Baird (5 pages)	,					
1417			Philips Research	ı - Digital Vide	eo Recorder, <u>}</u>	http://www.research.phi	ilips.com/pr	essmedia/h	ighlights (2
		$\Box$	pages)						
4		_	Maxell Device: I	DVD-RAM, h	ttp://www.ma	xell.co.jp/eng/device/dv	vd-ram/prof	ile.html (2	pages)
	4	_	AV & Develop	ment Center,	http://www.	pioneer.co.jp/crdl/av.l	htlm (1 pag	ge)	
9			Near Field Reco	ording - NFR	., <u>http://www</u>	nswc.navy.mil/cosip/	/ <u>nov98</u> (5 <u>j</u>	pages)	
			Technical Info,	http://209.24		nfo/backgrounder.htm	l (3 pages)	)	
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<sup>\*</sup> Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

\*\* The place or publication refers to the name of the journal, magazine or other publication in which the article was published....\* Notice of January 9, 1992, 11 13 to 25, at 20.





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MA		5,5	15,346	5/7/96	Watanabe,	, et al.		1	(	
4		5,4	93,454	2/20/96	Ziperovicl	n, et al. (Abstract)			/	
4		5,4	90,131	2/6/96	Ohta, et al.			1		
4		5,4	89,774	2/6/96	Akamine, et al. (Abstract)			T		1
4		5,4	70,627	11/28/95	Lee, et al.			T		
٦		5,4	53,168	10/26/95	Nelson, et al.			Π		
4		5,3	92,263	2/21/95	Watanabe, et al.				17	
٩		5,3	79,439	1/3/95	Harrison, et al.					1
1		5,3	54,985	10/11/94	Quate (Abstract)					1
1,		5,3	54,517	10/11/94	Yamasaki, et al.					1
Į,		5,3	11,376	5/10/94	Joan, et al.		1			1
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4		063	09714JP A	11/04/94	Japan (Ab	stract)		7		
4		061	62583JP A	6/10/94	Japan (Ab	stract)		/		
١		061	58281JP A	6/07/94	Japan (Ab	stract)				
1	<u> </u>	061	50419JP A	5/31/94	Japan (Abs	stract)			/	
	,		OTHER DO	CUMENTS (Inc	luding Author	, Title, Date, Pertinent Pa	ges, E	c.**)		
al A			Stragetic Partr	ers Home, <u>ht</u>	tp://209.24.	93.3/partners/index.htm	<u>nl</u> (1	page)		·
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			The era of gian	nt magnetores	sistive heads	5,				
4			http://www.sto	orage.ibm.cor	n/hardsoft/d	iskdrdl/technolo/gmr/	(16 pa	ages)		
						nologies, http://itri.loy		u/opi	to/c3_s5.ht	<u>m</u> (4 pgs.)
			Chp 3: Optical	Storage in th	ne Future, <u>ht</u>	tp://itri.loyola. (2 page	s)			
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<sup>\*</sup> Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

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Page 3 of 10 ATTY, DOCKET NO. SERIAL NO. U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE Form PTO-1449 8CN-8803 (Modified) Information Disclosure APPLICANT Statement by Applicant John E. Davis et al (Use several sheets if necessary) FILING DATE GROUF (37 cfr 1.98(b)) U.S. PATENT DOCUMENTS ISSUE EXAMINER PATENT NUMBER PATENTEE CLASS SUBCLASS IF APPROPRIATE DATE INITIAL WK 5,309,303 5/3/94 Hsia, et al. 11 3/22/94 5,296,528 Lütjens, et al. 4 5,242,761 9/7/93 Uchiyama (Abstract) ١ 5,230,025 7/20/93 Fishbine, et al. 4 5,202,880 4/13/93 Lee, et al. 4 5,199,090 3/30/93 Bell 4 3/9/93 Smith, et al. (Abstract) 5,193,039 Lee, et al. (Abstract) 5,191,563 3/2/93 1/12/93 Tanaka, et al. 5,178,926 -( 4 5,177,656 1/5/93 Hughes 4 12/15/92 5,171,585 Onisawa, et al. FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION TRANSLATION PUBLICATION COUNTRY OR DOCUMENT NUMBER CLASS SUBCLASS PATENT OFFICE YES NO DATE: 06119668JP A 4/28/94 Japan (Abstract) אעלוו 06004908JP A 1/14/94 Japan (Abstract) 41 06004916JP A 1/14/94 Japan (Abstract) 06187683JP A 7/08/94 Japan (Abstract) ч ٦ 06020316JP A 1/28/94 Japan (Abstract) OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.\*\*) Chp 3: Comparison of Japanese and U.S. R&D, http://itri.loyola.edu/ (1 page) "Learning and Process Improvement during Production Ramp-Up", Christian Terwiesch and Roger E. Bohn, The Wharton School, University of California San Diego, August 6, 1998 (33 pages) "Magnetic Storage Research Aiming at High Areal Densities", R&D Magazine, Dec. 1998 (6 pages)  $\alpha$ The WTEC High Density Data Storage Study, http://itri.loyola.edu/ (2 pages) "Characterization of Magnetizing Process for Pre-Embossed Servo Pattern of Plastic Hard Disks", 9 Shoji Tanaka et al., IEEE Transactions on Magnetics, Vol.30, No. 6, Nov. 1994 (3 pages) Dispersed Concentration, David McKendrick, Report 98-03, November, 1998, http://www-

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in conformance and not considered. Include copy of this form with next communication to applicant.

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140		5,1	61,134	11/3/92	Lee (Abstr	act)			//
		5,1	59,511	10/27/92	Das (Abstr	ract)			
۲		5,1	43,797	10/1/92	Hashima, e	et al.		/	
u		5,137,991		8/11/92	Epstein, et	al.			
ι,		5,1	18,771	6/2/92	Inoue, et a	<b>l.</b> .,			
Ų		5,112,701		5/12/92	Katsuragav	wa	T		
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Ċţ		5,1	,106,553 4/21/92 Onisawa, et al.			et al.		7	1
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,			Proposal to the	Alfred P. Sl	oan Foundat	ion from The Graduate	School o	f Internation	onal
1/24	İ		Relations and	Pacific Studie	es and The C	Center For Magnetic Re	cording F	Research, F	eb. 19,
<i> UTI</i>			1998, http://wv	w-irps.ucse.ed	łu/~sloan/pa	pers/sloanprop98.html	(27 pages	s)	
						planarization of magne			
	$\dashv$					, vol.27, no.6, pt.2, p.5			
_ ,						ides (magnetic recordi	-	IBM Tech	nical
d	- }					no.5, p.2453-4 (Abstrac			<del></del>
						ou et al., 1996 American			
						in polymers", Stepher	Y. Chou	et al., 199	5
01	-		American Insti	<del></del>				<del></del>	
						storage density fabrica	_	-	
			Physics, p. 317	•	oximai prob	e", Peter R. Krauss et	ai, 1997 A	American li	istitute of
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JU17		5,0	94,925	3/10/92	Ise, et al.			1	<u>                                     </u>	<u> </u>
-1		5,0	)93,174	3/3/92	Suzuki, et	al.	<u> </u>	$\perp$	1	<u> </u>
4	Ш	5,0	087,340	2/11/92	Onagi, et a	ıl.	ļ	$\perp$	<u>                                     </u>	L
1		5,063,096		11/5/91	Kohara, et	al.	<u> </u>	_	<u> </u>	
વ		5,059,473		10/22/91	Takahashi,	, et al.	<u> </u>	$\perp$		
4	Ш	5,018,128 5/21/91		5/21/91	Goldberg		<b></b>	$\perp$		I <i>I</i>
4	Щ	5,0	014,259	5/7/91	Goldberg,	et al.		L		<u> </u>
4			002,706	3/26/91	Yamashita	ı		<u> </u>		
4		4,99	99,234	3/12/91	Cowan		1		<i>                                   </i>	
4	Щ	4,9	86,938	1/22/91	Izuka, et al	l.			<b> </b>	_/
7		4,98	83,335	1/8/91	al.	<u></u>		<u> </u>		
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			"Patterned Me	edia: A Viable	e Route to 50	O Gbit/in <sup>2</sup> and up for M	agneti	ic R	ecording?"	, Robert J.
41		<u> </u>	White et al., II	EEE Transact	ions on Mag	gnetics, vol. 33, no. 1, J	an. 19	97,	p.990-995	·····
1417		i !	1		er 02, 1999,	Article Date: Septembe	er, 199	<del>9</del> 8, "	'Patterned	media: 200
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11		!	promise superl	high storage d	densities" (10	0 pages)	·			
		!	1			on Discrete Magnetic T	racks"	', S.I	E. Lambert	tet al.,
	<b>-</b>		1987 IEE, pag		~				<del></del>	
			1	_	_	nic light-emitting struct			n Wang et	al, 1999
4	, }	!	Appl. Phys. Le	ett., Vol. 75, N	No. 18, 1 No	ovember 1999, pages 27	<u> 167-27</u>	/69		
		. !	"Lithographical	ly induced self	f-construction	n of polymer microstruct	ures fo	r res	sistless patte	erning",
			Stephen Y. Cho	u et al., Appl.	Phys. Lett., V	/ol. 75, No. 7, August 19	99, p 1	004	-1005	
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(,		<u> </u>	11,966	3/27/90	Murayama		<del> </del>	+	<del></del>	<del>                                     </del>
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4	_	4,89	93,910	1/16/90	Birecki	Birecki				
4			85,649	12/5/89	Das (Abstra	ract)		L'		
4			45,142	7/4/89	Niwano, et			<u>[_'</u>		
4	-	<u>-</u>	41,501	6/20/89	<del> </del>	Izuka, et al.				
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4		4,74	41,689	5/3/88	Onizawa, e		1	]		
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11/1	L		in magnetic sto							·
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U			"Architecture o	of TeraStor's ?	Near Field R	Recording Technology,	, http:	//209	.24.93.3/te	ech_info,
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145	4,726,998	2/23/88	Ikenaga, e	t al.		$\prod$		7	$\overline{}$
14	4,719,171	1/12/88	Ikenaga, e	t al.					$\neg$
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ч	4,656,546	4/7/87	Mallory (Abstract)						$\perp$
ч	4,622,284	11/11/86	West, et al	. (Abstract)					
, t <sub>i</sub>	4,596,740	6/24/86	Tsukane						
ι(	4,596,739	6/24/86	Piltingsrud	l, et al.					L
C,	4,569,871	2/11/86	Ohmori, et	al.					
4	4,503,420	3/5/85	Rub, et al.	(Abstract)					
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u	4,415,942	11/15/83	Frosch, et	al.	/		/	/	
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<sup>\*</sup> Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

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144	4,515,828	5/07/85	Economy (	(Abstract)			/	1
4	5,723,033	3/03/98	Weiss			$\mathcal{T}$		
7	5,907,448	5/25/99	Watanabe,	et al.				/
4,	4,877,666	10/31/89	Muchnik, e	et al. (Abstract)				
4	4,896,292	1/23/90	Eich, et al.	(Abstract)				
4	4,911,967	3/27/90	Lazzari (Abstract)					$\neg \uparrow$
4	4,964,934	10/23/90	Gregg (Abs	stract)				
и	4,975,358	12/04/90	Sonnensch	ein, et al. (Abstract)				
9	5,018,962	5/28/91	Kitamura,	et al. (Abstract)				
ч	5,068,065	11/26/91	Maus, et al. (Abstract)				7	
4	5,096,563	3/17/92	Yoshizawa	, et al. (Abstract)	17		1	
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<sup>\*</sup> Use Publication date indicated on the patent or published application. 37 CFR 1.98(b).

\*\* "The place or publication refers to the name of the journal, magazine or other publication in which the article was published...." Notice of January 9, 1992, 11 13 to 25, at 20.



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' (1	5,164,465	11/17/92	Epstein, et	al. (Abstract)			1
t <sub>f</sub>	5,267,112	11/30/93	Batra, et al	I. (Abstract)			
4	5,276,098	1/04/94	Kohara, et	al. (Abstract)			
ί,	5,582,891	12/10/96	Murakami	, et al. (Abstract)			
(,	5,585,989	12/17/96	Kuromiya,	et al. (Abstract)			
4	5,669,995	9/23/97	Hong (Abs	stract)			
U	5,751,452	5/12/98	Tanaka, et	al. (Abstract)			
٤	5,804,017	9/08/98	Hector (Ab	ostract)			
٩	5,807,498	9/15/98	Gibbons, e	t al. (Abstract)			7
4	5,808,830	9/15/98	Stefansky,	et al. (Abstract)		7	/
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11	5,846,627	12/08/98	Hong (Abs	tract)	-	$\overline{}$	<del>/</del>		
7	5,859,833	1/12/99	Chaterjee, e	et al. (Abstract)		/	_/_		$\neq$
4	RE 34,506	1/11/94		al. (Abstract)	1/	-	/-	-	
7	6,066,380	5/23/00		, et al.	1/-		/	/	<del></del> -
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